JOINT CONSITTEE ON ATOMIC EMERGY. CONGRESS OF THE UNITED STATES

Ame 1, 1959

MEMORANDUM

TO:

Honorable Clinton P. Anderson, Chairman

of the Joint Committee on Atomic Energy

FROM:

Thomas E. Murray, Consultant

SUBJECT:

Supplement to Memorandum of May 8, 1959, on "The Present

United States Ban on Ruclear Testing."

The most recent developments in the negotiations on banning nuclear testing impel me to supplement my memorandum of May 8, 1959 on this seme subject. In that memorandum I made the following statement: "From the standpoint of American military security and political advantage, the worst thing that can happen is . . . that Mr. Khrushchev will accept the Macmillan-Eisenhover proposal." This proposal concerns the carrying out on an annual basis of a predetermined number of inspections.

It was originally made by Prime Minister Macmillan in February of this year during his visit to Mr. Khrushchev in Moscow. Mr. Khrushchev evidently saw in it possibilities of advantage to the Soviet Union; consequently he put it forward in his answer to President Eisenhover's letter of April 13. When the President in a further letter of May 5 expressed a villingness to "explore this proposal," Mr. Khrushchev with obvious pleasure replied that the Macmillan proposal is "a good basis" for agreement. He also rejected as unnecessary the conditions which the President had attached.

It is imperative that the fact be recognised that an agreement based on the Macmillan proposal is potentially disastrous for the Mailed States and the free world.

The essential reason lies in the present state of science in what concerns the possibility of concenling nuclear test explosions. Many of the facts concerning this matter are contained in the still secret document of the President's Science Advisory Committee, known as the Derkner report. This report, together with other studies, makes it clear that there are many ways in which the Macmillan proposal could easily be mullified.

The simple fact is that an accurate detection system for nuclear explosions does not exist. It may come into existence some day, but it does not exist now. In fact, most evidence points to increasing rather than to decreasing difficulty in detecting underground nuclear explosions.

In view of the scientific facts it is clear that U.S. acceptance of the Macmillan proposal would mean the abdication of two cardinal and long-standing American policies: first, the general policy that no agreement is to be made with the Soviet Union unless it is self-enforcing; second, the particular disarmament policy that agreements on nuclear test essection must be made subject to adequate inspection. The Macmillan type of control would exente the illusion of control without the reality. The U.S. would be madelessly trusting the good faith of the Soviet Union, in the face of all the historical evidence that the term "good faith" has no meaning in the Soviet Woodbulary.

Almost all the public discussion of the Macmillan proposal has been concerned with the questions of what would be an "adequate" number of inspections, or how the Soviet Union could still use the veto on authors of procedure, instrumentation, or criteria. But my concern with the Macmillan proposal is not primarily related to these matters at all. It strikes at the very heart of the subject--namely, the absence of any system that will detect underground nuclear explosions, no matter how many inspections are permitted. It is this fact which both Mr. Macmillan and Mr. Misenhover seem so far to have Sailed to recognise.

The refusel to take into account our scientific and technical limitations goes beyond the political leaders; it even involves our scientific community.

For example, at the "scientific" conference in Geneva last August political pressure for an agreement forced extrapolation from limital data as a single test—a test which, incidentally, was conducted for an extrapolation data was an almost semilar different purpose and in which the "possibility of detection" data was an almost semilar described.

byproduct.

The essential lack of an edequate scientific back for the Amount agreement was admitted by the Propilert's Science Advicery Propiler & Burnary 5, 1959. The corresponding lack at a exceptific back for the Manual Representation will be demonstrated if and about emissing reports and make

The scientific data on nuclear test detection should be made immediately available to the American people. It is not necessary to understand estanology and nuclear physics in order to realise that no reliable detection system exists today. In a democracy sound public policy cannot be formulated unless there is wide knowledge and debate regarding the major increase. The last of much knowledge and debate regarding the major increase. The last of much knowledge and debate has allowed this country to pursue its solice of the Alexandment negotiations while at the same time it announces its intention to "stand firm" in defense of the free world.

There seems to have been a serious failure of diplomatic and of scientific liaison between the U.S. and the U.K. The Macmillan proposal appears as a pure piece of politics; from a scientific viewpoint the formula for inspection that it proposes is dangerous to free-world security. The proposal should not have been made in the first instance. After it was made, apparently without prior consultation with the U.S., the Administration should have schools in. If we

NUVENTHIS MORNING.

THE SOVIET PREMIER WAS IN HIS BEST EARTERING FORM.

HE AND ALLEN DULLES, DIRECTOR OF THE CENTRAL INTELLIGENCE AGENCY, AGREED THAT THE TWO COUNTRIES GOT MUCH OF THEIR INTELLIGENCE INFORMATION FROM THE SAME

INTERNATIONAL SPIES. KHRUSHCHEV SAID HE AND DULLES

MIGHT GET TOGETHER AND PAY THESE DOUBLE AGENTS ONLY

UNE SALARY INSTEAD OF TWO.

wish to retain the relationship of the free world we must accept the kind of defense between disarmament policy and scientific fact that the Macmillian proposal illustrates. The worse thing that could happen, I suspect, is that an agreement be reached on the basis of the Macmillian proposal. The best thing that could happen is that the U.S. should firmly set aside the Macmillian proposal and return to the sound and realistic proposal made by the President to Mr. Krushchev in his letter of April 13. This proposal was for a "phased" suspension of tests with an immediate ban to be placed on atmospheric tests. It is these tests in the atmosphere which produce potentially hazardous radioactive fallout and it is these tests which can be readily detected by existing techniques. This proposal was most definitely a major forward in the international control of nuclear tests which received immediate favorable public support. It constitutes a sound basis for a nuclear policy which will show substantive good faith on the part of the U.S. in disarmament negotiations and at the same time not constitute an absurd bartering away of U.S. national security for an illusion of international control.